

patent application serial no. **09 / 7 2 0 9 5 3**

*Department of Commerce
Patent and Trademark Office
for record*

01/05/2001 SNAJARRO 00000035 09720953

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FORM PTO-1390
(REV 11-98)

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTORNEY DOCKET NUMBER

200001

TRANSMITTAL LETTER TO THE UNITED STATES

DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A FILING UNDER 35 U.S.C. 371

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

09/720953

INTERNATIONAL APPLICATION NO.
PCT/JP99/03664

INTERNATIONAL FILING DATE
07 July 1999

PRIORITY DATE CLAIMED
08 July 1998

TITLE OF INVENTION *Printed Circuit Board and Method of Manufacturing Same*

APPLICANT(S) FOR DO/EO/US Kiyotaka TSUKADA, Masaru TAKADA, and Kenji CHIHARA

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This express request to begin national examination procedures (35 U.S.C. 371 (f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371 (b) and PCT Articles 22 and 39(1).
4. ☒ A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
5. ☒ A copy of the International Application as filed (35 U.S.C. 371 (c)(2))
 - a. ☐ is transmitted herewith (required only if not transmitted by the International Bureau).
 - b. ☒ has been transmitted by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☒ A translation of the International Application into English (35 U.S.C. 371 (c)(2)).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
 - a. ☐ are transmitted herewith (required only if not transmitted by the International Bureau).
 - b. ☐ have been transmitted by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☒ have not been made and will not be made.
8. ☐ A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
10. ☐ A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).

Items 11. To 16. below concern document(s) or information included:

11. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98. (and references)
12. ☒ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☒ A FIRST preliminary amendment including a *Request to Approve Drawing Change*.
☐ A SECOND or SUBSEQUENT preliminary amendment.
14. ☐ A substitute specification.
15. ☐ A change of power of attorney and/or address letter.
16. ☒ Other items or information:

A copy of the WIPO Publication (WO 00/03572) and International Search Report; Form PCT/IB/304; Form PCT/IB/308; and Form PCT/IB/332, are also enclosed.

U.S. APPLICATION NO. (if known, see 37 CFR 1.5)		INTERNATIONAL APPLICATION NO.		ATTORNEY DOCKET NUMBER	
09/7209531		PCT/JP99/03664		232.001	

17. <input checked="" type="checkbox"/> The following fees are submitted: BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)) : Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO\$1000.00 International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO.\$860.00 International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445 (a)(2)) paid to USPTO\$710.00 International preliminary examination fee paid to USPTO (37 CFR 1.482) but all claims did not satisfy provisions of PCT Article 33(1)-(4)\$690.00 International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33 (1)-(4).\$100.00 <div style="text-align: right; margin-top: 5px;">ENTER APPROPRIATE BASIC FEE AMOUNT =</div>				CALCULATIONS PTO USE ONLY <div style="border: 1px solid black; height: 100px; width: 100%;"></div>																																																																													
Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				\$ 860.00																																																																													
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Total claims</td> <td style="width: 20%;">13 - 20 =</td> <td style="width: 10%;">0</td> <td style="width: 10%;">X \$18.00</td> <td style="width: 20%;">\$ 0.00</td> <td style="width: 10%;"></td> </tr> <tr> <td>Independent claims</td> <td>3 - 3 =</td> <td>0</td> <td>X \$80.00</td> <td>\$ 0.00</td> <td></td> </tr> <tr> <td colspan="3">MULTIPLE DEPENDENT CLAIM(S) (if applicable)</td> <td>+ \$270.00</td> <td>\$ 0.00</td> <td></td> </tr> <tr> <td colspan="4" style="text-align: right;">TOTAL OF ABOVE CALCULATIONS =</td> <td>\$ 860.00</td> <td></td> </tr> <tr> <td colspan="4" style="padding: 5px;"> Reduction of 1/2 for filing by small entity, if applicable. A Small Entity Statement must also be filed (Note 37 CFR 1.9, 1.27, 1.28). </td> <td>\$ 0.00</td> <td></td> </tr> <tr> <td colspan="4" style="text-align: right;">SUBTOTAL =</td> <td>\$ 860.00</td> <td></td> </tr> <tr> <td colspan="4" style="padding: 5px;"> Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)). </td> <td>\$ 0.00</td> <td></td> </tr> <tr> <td colspan="4" style="text-align: right;">TOTAL NATIONAL FEE =</td> <td>\$ 860.00</td> <td></td> </tr> <tr> <td colspan="4" style="padding: 5px;"> Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property </td> <td>\$ 40.00</td> <td></td> </tr> <tr> <td colspan="4" style="text-align: right;">TOTAL FEES ENCLOSED =</td> <td>\$ 900.00</td> <td></td> </tr> <tr> <td colspan="4"></td> <td style="text-align: center;">Amount to be:</td> <td></td> </tr> <tr> <td colspan="4"></td> <td style="text-align: center;">Refunded</td> <td style="text-align: center;">\$</td> </tr> <tr> <td colspan="4"></td> <td style="text-align: center;">Charged</td> <td></td> </tr> </table>				Total claims	13 - 20 =	0	X \$18.00	\$ 0.00		Independent claims	3 - 3 =	0	X \$80.00	\$ 0.00		MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$270.00	\$ 0.00		TOTAL OF ABOVE CALCULATIONS =				\$ 860.00		Reduction of 1/2 for filing by small entity, if applicable. A Small Entity Statement must also be filed (Note 37 CFR 1.9, 1.27, 1.28).				\$ 0.00		SUBTOTAL =				\$ 860.00		Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				\$ 0.00		TOTAL NATIONAL FEE =				\$ 860.00		Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				\$ 40.00		TOTAL FEES ENCLOSED =				\$ 900.00						Amount to be:						Refunded	\$					Charged	
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a. ☒ A check in the amount of \$ 900.00 to cover the above fees is enclosed.

b. ☐ Please charge my Deposit Account No. 50-1170 in the amount of \$ _____ to cover the above fees.
A duplicate copy of this sheet is enclosed.

c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any
overpayment to Deposit Account No. 50-1170. A duplicate copy of this sheet is enclosed.

NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO
 BOYLE FREDRICKSON NEWHOLM STEIN & GRATZ S.C.
 250 East Wisconsin Avenue, Suite 1030
 Milwaukee, WI 53202-4232
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SIGNATURE:
James F. Boyle
 NAME
33.653 January 3, 2001
 REGISTRATION NUMBER DATE

BOYLE
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NEWHOLM
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INTELLECTUAL PROPERTY LAW

JAMES F. BOYLE
DIRECT DIAL: 414-225-1662
JFB@BOYLEFRED.COM

January 3, 2001

Director of the U.S. of Patent
and Trademark Office
Box PCT
Washington, D.C. 20231

Re: Utility Patent Application Transmittal
National Phase of PCT/JP99/03664
International Filing Date: 07 July 1999
Inventors: Kiyotaka TSUKADA, Masaru TAKADA, and Kenji CHIHARA
Title: *Printed Circuit Board and Method of Manufacturing Same*
Priority: Japanese Appl. No. 10-192992; Filed 08 July 1998
Assignee: Ibiden Co., Ltd.
Customer Account No.: 23598
Attorney Docket No.: 232.001

Dear Sir:

This application is being filed under **35 U.S.C. § 371** as the national phase of PCT application serial no. PCT/JP99/03664 that has an international filing date of July 7, 1999. Enclosed is our check in the amount of \$900.00 in payment of the government filing fee for the enclosed United States patent application, which application includes 11 pages of specification, 8 claims on 3 sheets, 14 drawings on 5 sheets, an Abstract of the Disclosure, an executed Declaration, a 6 page Preliminary Amendment that adds 5 claims, a Request to Approve Drawing Change, and a Transmittal Letter to the U.S. Designated/Elected Office.

An Information Disclosure Statement (IDS), Form PTO-1449, and copies of the documents are enclosed.

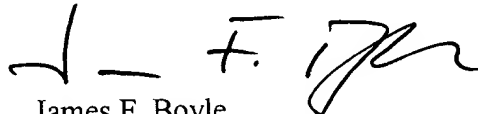
Also enclosed is an Assignment, which was executed concurrently with the Declaration and which is being filed concurrently with the application, a recordation cover sheet, and our \$40.00 check in payment of the recording fee.

Director of the U.S. Patent
and Trademark Office
January 3, 2001
Page 2

In addition, a copy of form PCT/IB/304 indicating that the Japanese application upon which priority is claimed was transmitted to the International Bureau, form PCT/IB/308 indicating that a copy of the international application has been communicated to the United States Patent Office, and a copy of the International Search Report are also enclosed. A translation of the International Preliminary Examination Report for the above-identified PCT patent application will also be forthcoming.

The Director is hereby authorized to charge payment of any additional fees associated with this communication or credit any overpayment to Deposit Account No. 50-1170.

Respectfully submitted,



James F. Boyle
Registration No. 33,653

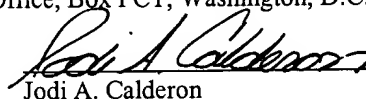
Enclosures

Certification Under 37 CFR 1.10

Express Mail Label No: EL647007246US

Date of Deposit: January 3, 2001

I hereby certify that this paper or fee is being deposited with the United States Postal Service in "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the DO/EO/US Director of the U.S. Patent and Trademark Office, Box PCT, Washington, D.C. 20231.



Jodi A. Calderon